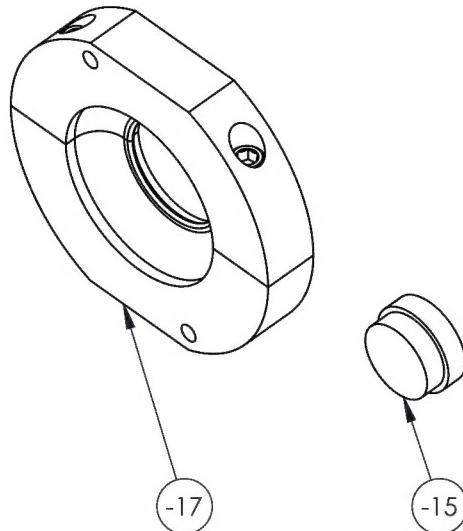


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-13 CH'D OUTSIDE DIMENSIONS & ROUNDED OUTSIDE DIMENSIONS & MATCHED 105-1 HOLES MATCHED 269T9336-1. -17 CH'D OUTSIDE DIMENSIONS & ROUNDED OUTSIDE DIMENSIONS & MATCHED 105-1 HOLES MATCHED 269T9336-1 & CH'D P/N -001 TO -17.	3/14/2006		
2		-13 & -17 CH'D THICKNESS FROM 1.3, ADDED FULL R.055 WAS R .030, CH'D CUTOUT TO C-BORE.	4/4/2006		
3		-15 ADDED HOLE FOR BALL BEARING & O-RING.	10/27/2006		
4		CH'D REVISION NUMBER TO ALPHABETIC LETTERS.	5/21/2007		
5		CH'D TITLEBLOCK & REVISION BLOCK, CH'D REVISION TO NUMERICAL, CH'D ENGRAVE NOTE.	6/9/2009	RJC	RW
5A		ADDED INSTRUCTIONS	2/16/2010	RJC	RW
5B		-13 CH'D TOLERANCE WAS Ø5.681 IS Ø5.68, CH'D DWG TOLERANCE WAS .XXX ±.005, .XX ±.01 IS .XXX ±.010, .XX ±.03. -17 ADDED BREAK-OUT SECTION TO CLARIFY COUNTERBORE FEATURE, COUNTER BORE WAS Ø.5625 IS Ø.563, CH'D DIM TOLERANCE WAS Ø5.681 IS Ø5.68. CH'D DWG TOLERANCE WAS .XXX ±.005, .XX ±.01 IS .XXX ±.010, .XX ±.03.	3/14/2014	RJC	GE
6	16-0044	-13 CH'D DIM WAS 2.625 IS 2.63, WAS 2X 1.875 IS 1.875, WAS 1.084 IS 2X 1.084, WAS R.545 IS R.55, WAS FULL R.055 IS FULL R, WAS Ø2.050 IS Ø2.050 V.150; DELETED 1.086 TYP. ADDED NOTES 1 & 2. ADDED DIM 3.750. -13B CH'D P/N WAS -17 IS -13B CH'D DIM WAS (2.625) IS 2.63, WAS C-BORE Ø.563 (x2) IS 2X Ø.397 TRHU ALL L_ Ø.56 V.1.15, WAS R.545 ID R.55, WAS 2X 1.875 IS 1.875, ADDED DIM 3.750, DELETED DIM 1.086. ADDED NOTES 1, 2 & 3. -15A CH'D DIM'S WAS .090 IS .09 WAS .094 IS .09, WAS Ø1.561 IS Ø1.56, WAS .620 IS Ø.531 V.46. -15 & -17 ADDED ASSEMBLY DRAWING. -16 & -18 ADDED ASSEMBLY DRAWING.	2/22/2016	RJC	JAG



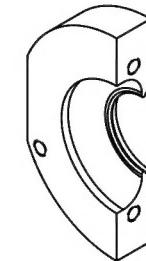
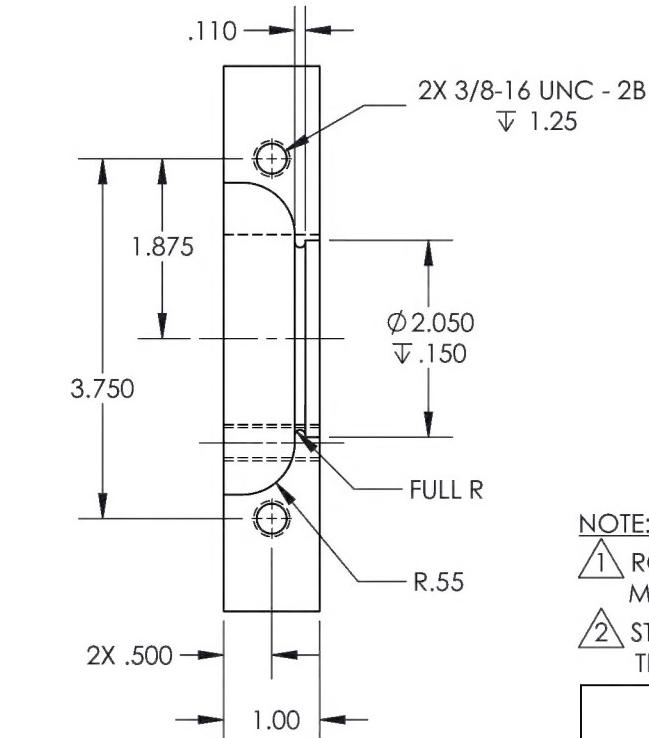
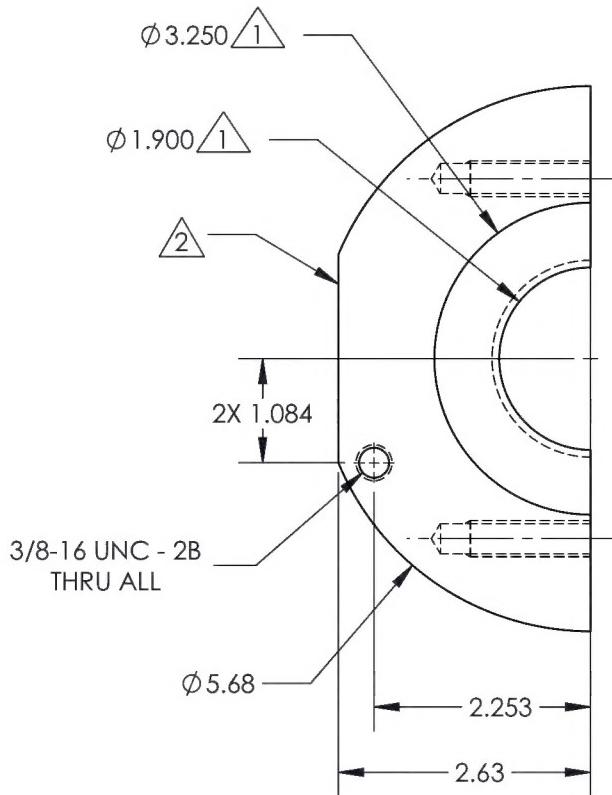
NOTE:  
FOR USE WITH 269T9336-105 PULLEY BEARING SCREW SET ONLY.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
1			-13		L/HALF UPPER PULLER	H-13		2
	1		-15A		SHAFT PLUG	1018/1020 CR		5
X			-15	1	SHAFT PLUG ASSY			6
1			-13B		R/HALF UPPER PULLEY	H-13		3
X			-17	1	UPPER PULLER ASSY.			4
2		B/O	-19		SOCKET HEAD CAP SCREW	STEEL	3/8-16 X 2-1/2 (MCMASTER-CARR #91251A634)	4
	1	B/O	-21		BALL BEARING	S2 TOOL STEEL	Ø1/2 (MCMASTER-CARR #1995T15)	6
	1	B/O	-23		O-RING	BUNA-N	2mm C/S X Ø12mm I.D. (MCMASTER-CARR #9262K176)	6
ASSY -17	ASSY -15							SCALE 1:3 DATE 10/24/2006 SHEET 1 OF 7

DWG NO.	269T9336-103	REV 6
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8	
HEAT TREAT	.XX ± .01 ANGLES ± 5°	
FINISH	X ± .1 SURFACES = 125 ✓	
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:	PERRITT	
CHECKED:	DUFERFELDT	
OPPS APPR:	ANDERSON	
QA APPR:	LINDSAY USED ON MODEL	
APPROVED:	GILBERT SCHWEIZER 269	
SCALE	1:3	DATE 10/24/2006
SHEET 1 OF 7		

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-13 CH'D OUTSIDE DIMENSIONS & ROUNDED OUTSIDE DIMENSIONS & MATCHED 105-1 HOLES MATCHED 269T9336-1.	3/14/2006		
2		-13 CH'D THICKNESS FROM 1.3, ADDED FULL R.055 WAS R .030, CH'D CUTOUT TO C-BORE.	4/4/2006		
3			2/22/2016		
4			2/22/2016		
5B		-13 CH'D TOLERANCE WAS $\varnothing 5.681$ IS $\varnothing 5.68$ . CH'D DWG TOLERANCE WAS .XXX ±.005, .XX ±.01 IS .XXX ±.010, .XX ±.03.	3/14/2014	RJC	GE
6	16-0044	-13 CH'D DIM WAS 2.625 IS 2.63, WAS 2X 1.875 IS 1.875, WAS 1.084 IS 2X 1.084, WAS R.545 IS R.55, WAS FULL R.055 IS FULL R, WAS $\varnothing 2.050$ IS $\varnothing 2.050$ $\nabla .150$ , DELETED 1.086 TYP. ADDED NOTES 1 & 2, ADDED DIM 3.750.	2/22/2016	RJC	JAG



NOTE:

1 ROUGH MACHINE, HEAT TREAT, FACE AND MACHINE AFTER HEAT TREAT.

2 STAMP BOTH -13 & -17 HALVES BEFORE HEAT TREATING TO KEEP IN PAIRS.



TITLE  
UPPER PULLEY PULLER KIT

DWG NO. 269T9336-103-13

REV 6

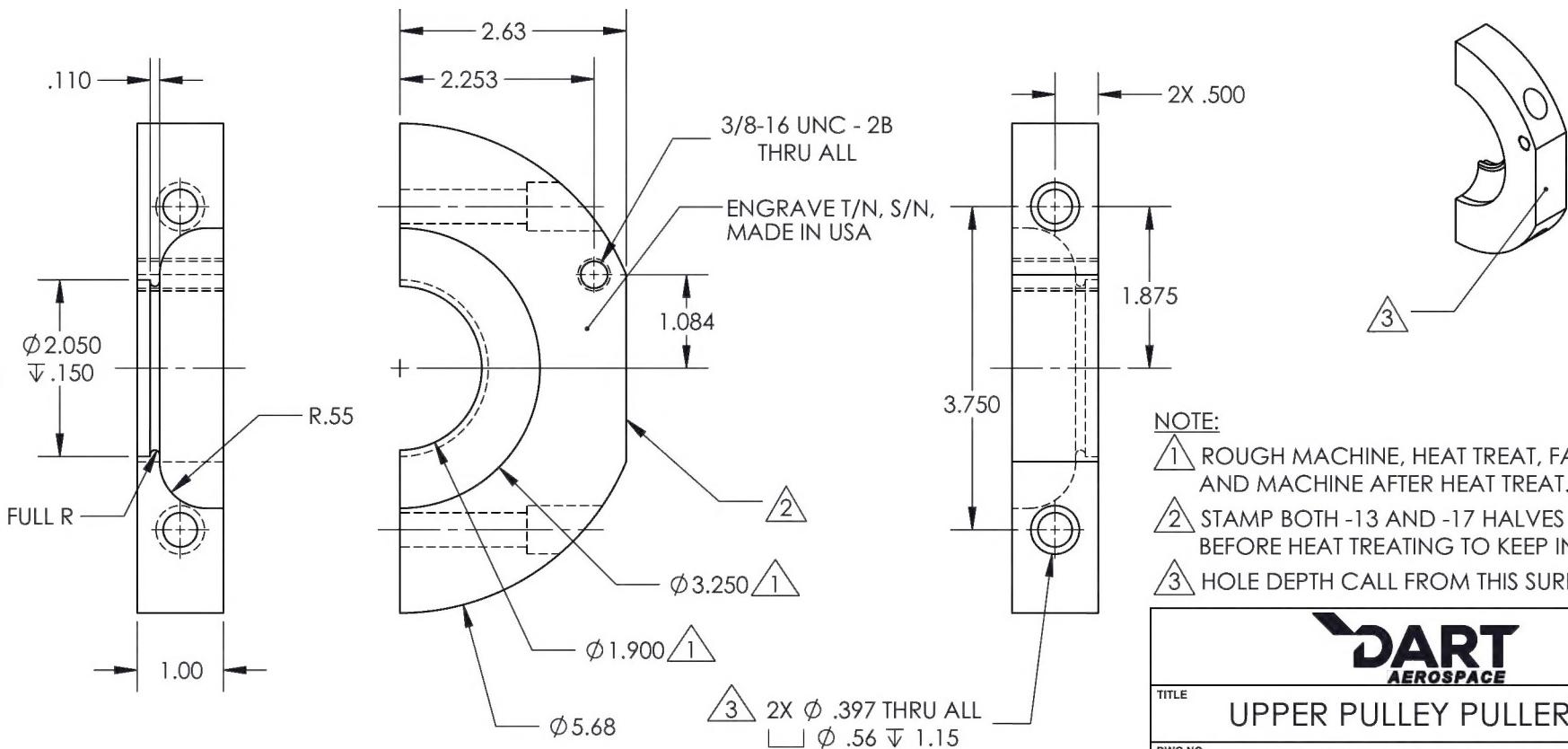
MAT'L H-13	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT RC 35-40	.XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° X ± .1 SURFACES = 125 ✓
FINISH BLACK OXIDE	
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: PERRITT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	
APPROVED: GILBERT	SCHWEIZER 269
SCALE 1:2	DATE 2/17/2006
	SHEET 2 OF 7

-13

L/HALF UPPER PULLER

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	
1		-17 CH'D OUTSIDE DIMENSIONS & ROUNDED OUTSIDE DIMENSIONS & MATCHED 105-1 HOLES MATCHED 269T9336-1 & CH'D P/N -001 TO -17.	3/14/2006			
2		-17 CH'D THICKNESS FROM 1.3, ADDED FULL R.055 WAS R .030, CH'D CUTOUT TO C-BORE.	4/4/2006			
5B		-17 ADDED BREAK-OUT SECTION TO CLARIFY COUNTERBORE FEATRURE, COUNTER BORE WAS Ø .5625 IS Ø.563, CH'D DIM TOLERANCE WAS Ø5.681 IS Ø5.68. CH'D DWG TOLERANCE WAS .XXX ±.005, .XX ±.01 IS .XXX ±.010, .XX ±.03.	3/14/2014	RJC		
6	16-0044	-138 CH'D P/N WAS -17 IS -138 CH'D DIM WAS {2.625} IS 2.63, WAS C-BORE Ø .563 {x2} IS 2X Ø .397 TRHU ALL L_ Ø .56 IS 1.15, WAS R.545 ID R.55, WAS 2X 1.875 IS 1.875, ADDED DIM 3.750. DELETED DIM 1.086. ADDED NOTES 1, 2 & 3.	2/22/2016	RJC	JAG	

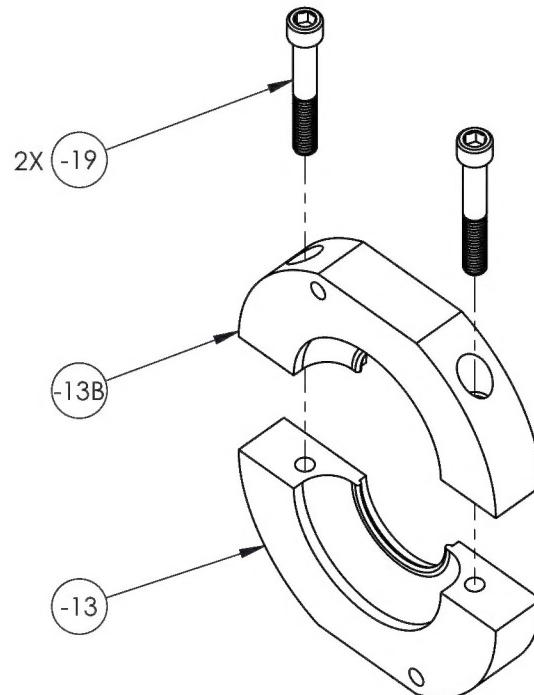


R/HALF UPPER PULLEY



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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6	16-0044	-17 ADDED ASSEMBLY DRAWING.	2/22/2016	RJC	JAG



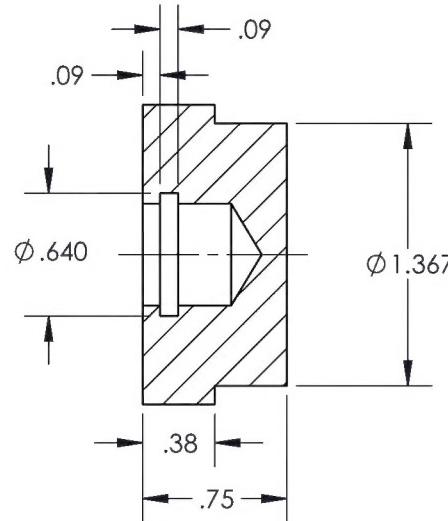
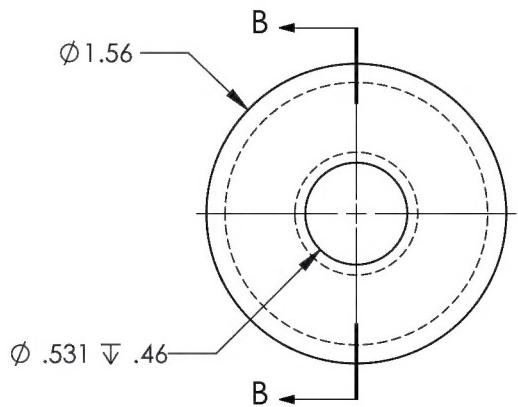
(-17)

UPPER PULLER ASSY.

<b>DART</b> AEROSPACE	
TITLE	
DWG NO. 269T9336-103-17 REV 6	
MAT'L UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT .XXX ± .005 FRACTIONS ± 1/8 TREAT .XX ± .01 ANGLES ± 5° FINISH X ± .1 SURFACES = 125 ✓ SPEC	
DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT SCHWEIZER 269	
SCALE 1:3	DATE 10/24/2006
SHEET 4 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
3		-15 ADDED HOLE FOR BALL BEARING & O-RING.	10/27/2006		
6	16-0044	-15A CH'D DIM'S WAS .090 IS .09 WAS .094 IS .09, WAS Ø1.561 IS Ø1.56, WAS .620 IS Ø.531 $\mp$ .46.	2/22/2016	RJC	JAG



SECTION B-B

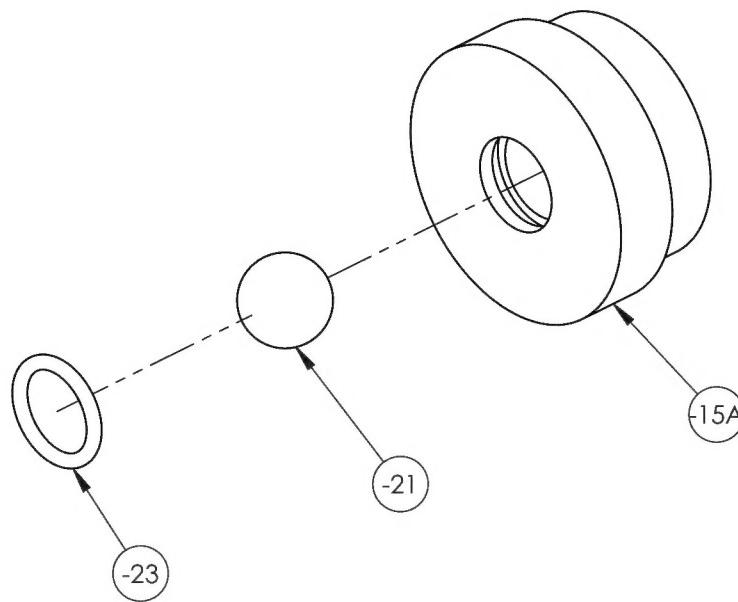
-15A

SHAFT PLUG

<b>DART</b> AEROSPACE	
TITLE	
UPPER PULLEY PULLER KIT	
DWG NO. 269T9336-103-15A REV 6	
MAT'L 1018/1020 CR UNLESS OTHERWISE SPECIFIED	
HEAT DIMENSIONS ARE IN INCHES	
TREAT .XXX ± .005 FRACTIONS ± 1/8	
FINISH BLACK OXIDE .XX ± .01 ANGLES ± 5°	
SPEC X ± .1 SURFACES = 125 ✓	
DRAWN BY: PERRITT	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY USED ON MODEL	
APPROVED: GILBERT SCHWEIZER 269	
SCALE 1:1	DATE 10/24/2006
SHEET 5 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6	16-0044	-15 ADDED ASSEMBLY DRAWING.	2/22/2016	RJC	JAG



-15

SHAFT PLUG ASSY.

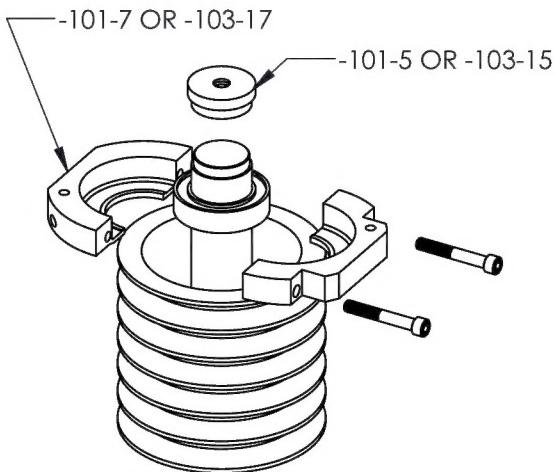
<b>DART</b> AEROSPACE	
TITLE	
DWG NO. 269T9336-103-15 REV 6	
MAT'L UNLESS OTHERWISE SPECIFIED HEAT DIMENSIONS ARE IN INCHES TREAT .XXX ± .005 FRACTIONS ± 1/8 TREAT .XX ± .01 ANGLES ± 5° FINISH X ± .1 SURFACES = 125 ✓ SPEC	
DRAWN BY: PERRITT CHECKED: DUERFELDT OPPS APPR: ANDERSON QA APPR: LINDSAY USED ON MODEL APPROVED: GILBERT SCHWEIZER 269	
SCALE 1:1	DATE 10/24/2006
SHEET 6 OF 7	

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### STEP 1:

FROM KIT -101 OR -103 SLIDE THE PULLER BODY HALVES UNDER THE BEARING AND FASTEN TOGETHER WITH CAP SCREWS AS SHOWN. PLACE -101-5 OR -103-15 SHAFT PLUG ON THE END OF SHAFT.

NOTE:  
ENSURE THE -101-5 OR -103-15 SHAFT PLUG HAS A BALL BEARING INSTALLED IN IT. IF IT DOES NOT, REPLACE IT BEFORE USING TOOL.



### STEP 3

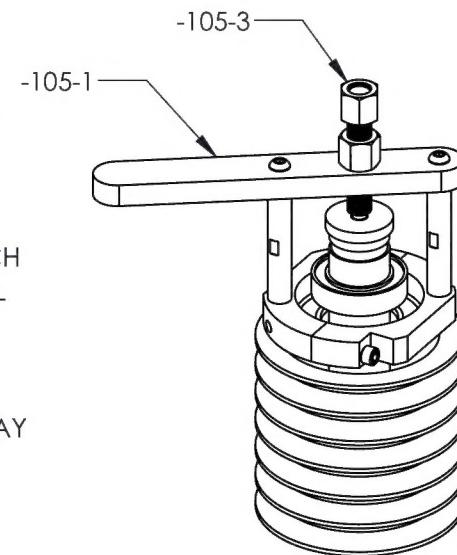
ATTACH -105-1 BAR SECURELY TO RODS USING CAP SCREWS AS SHOWN.

LUBRICATE THREADS OF -105-3 PULLER BOLT AND SCREW THROUGH -105-1 BAR AND INTO -101-5 OR -103-15 SHAFT PLUG.

USING A 1-1/8 WRENCH TIGHTEN -105-3 BOLT UNTIL BEARING IS REMOVED FROM SHAFT.

NOTE:  
DO NOT USE IMPACT WRENCH OR ANY OTHER POWER TOOL TO PULL BEARING.

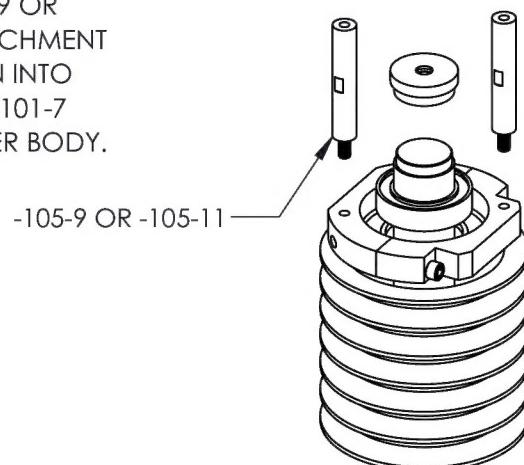
NOTE:  
LONG END OF -105-1 BAR MAY BE HELD IN A VICE AS NECESSARY.



NOTICE:  
-101, -103 AND -105 KITS SOLD SEPARATELY

### STEP 2

FROM THE -105 KIT, SCREW THE -105-9 OR THE -105-11 ATTACHMENT RODS AS SHOWN INTO THE ASSEMBLED -101-7 OR -103-17 PULLER BODY.



<b>DART</b> AEROSPACE	
190 S. Danebo Ave., Eugene, OR. 97402 1-800-556-4166	
e-mail: sales@dart aerospace.com dartaerospace.com	
TITLE	
PULLEY BEARING SCREW SET	REV <b>6</b>
DWG NO 269T9336-103	SCALE 1:6
DATE 12/23/2010	CUSTOMER 1 OF 1
SHEET 7 OF 7	